

FIGURE 1A

Experimental Design

Animals: Normal Male Sprague Dawley Rats

a Primed with 100 % $^2\text{H}_2\text{O}$ via intra-peritoneal injection to achieve 2% $^2\text{H}_2\text{O}$ in Body Water

b 4% $^2\text{H}_2\text{O}$ Drinking Water

c Sacrifice

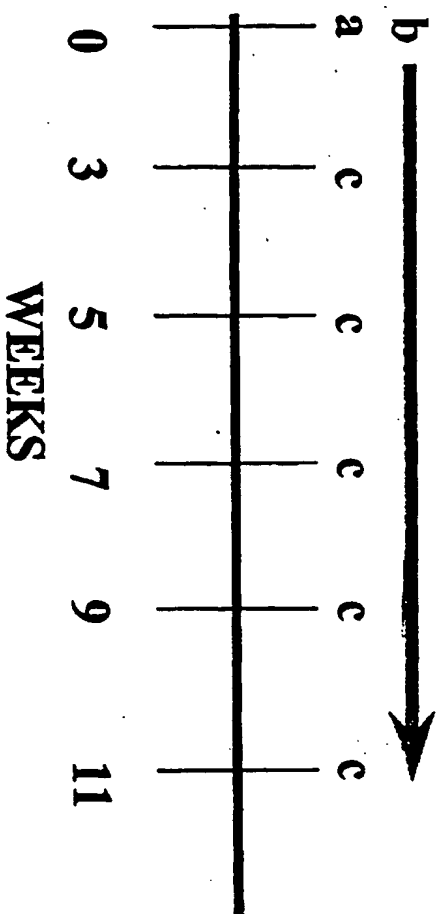
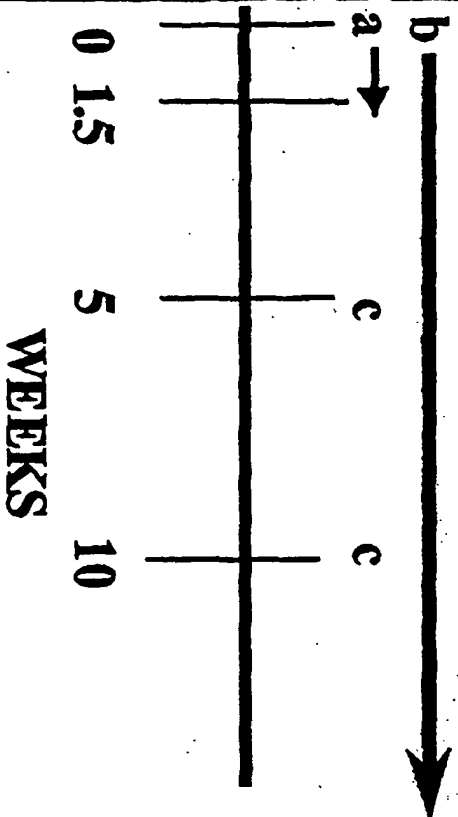


FIGURE 1B

Experimental Design

Human Subjects:

- a Primed with 560 ml of 70% $^2\text{H}_2\text{O}$
- a 160 ml of 70% $^2\text{H}_2\text{O}$ (over next 11 days)
- b 70 ml/day of 70% $^2\text{H}_2\text{O}$
- c blood draw



Hindlimb mtDNA

% New Mitochondria

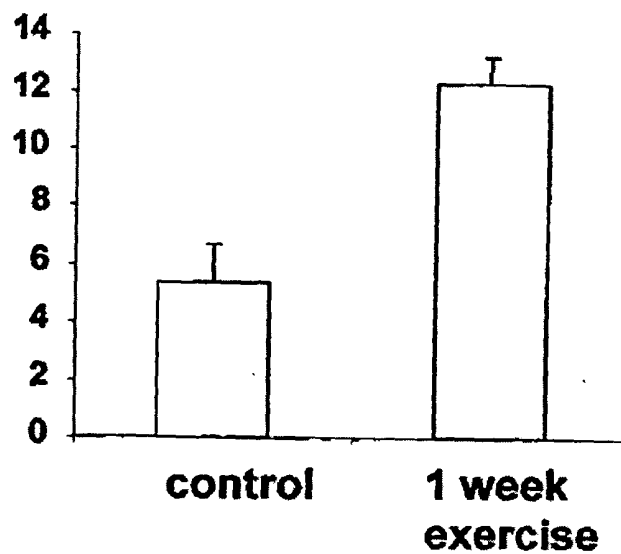
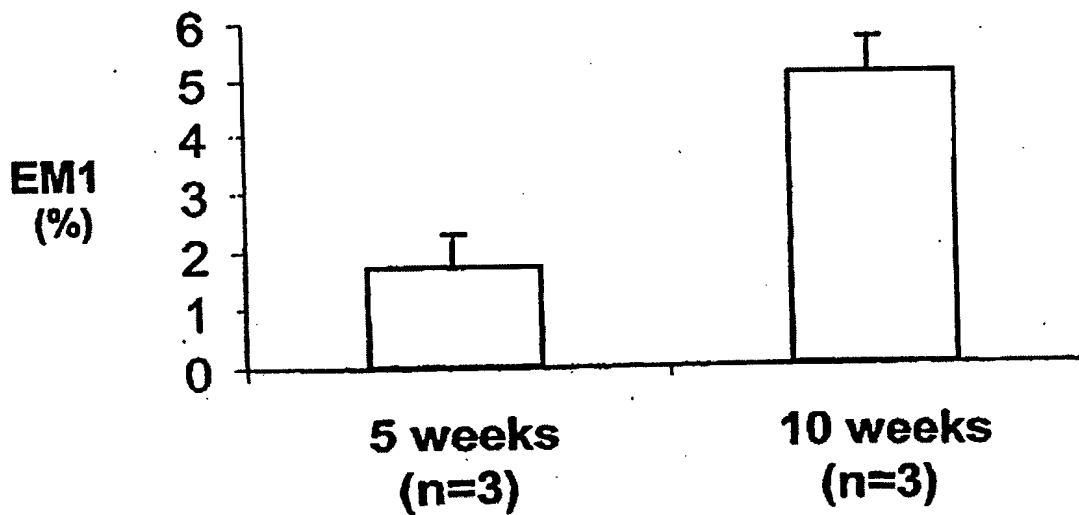


FIGURE 2A

FIGURE 2B

Platelet Enrichment from Human Subjects on $^2\text{H}_2\text{O}$



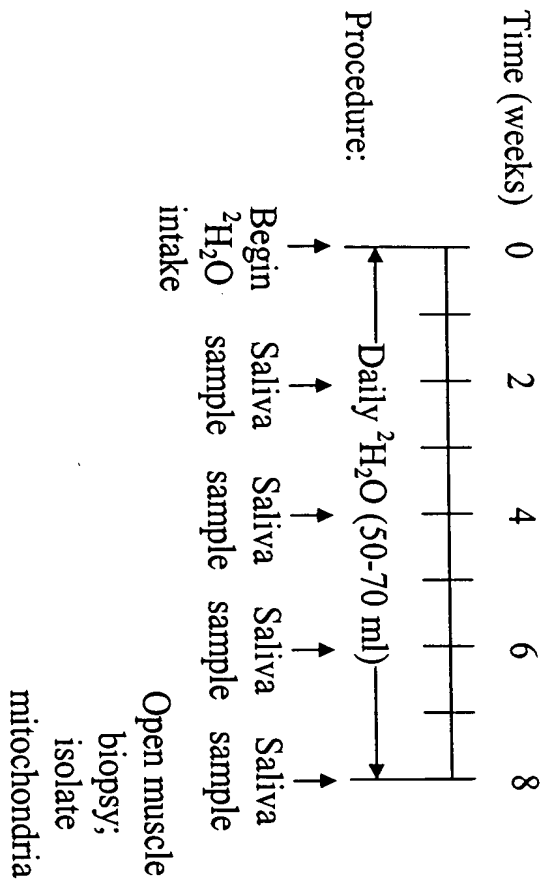


FIGURE 3A

Platelet Enrichment from Human Subjects on $^2\text{H}_2\text{O}$

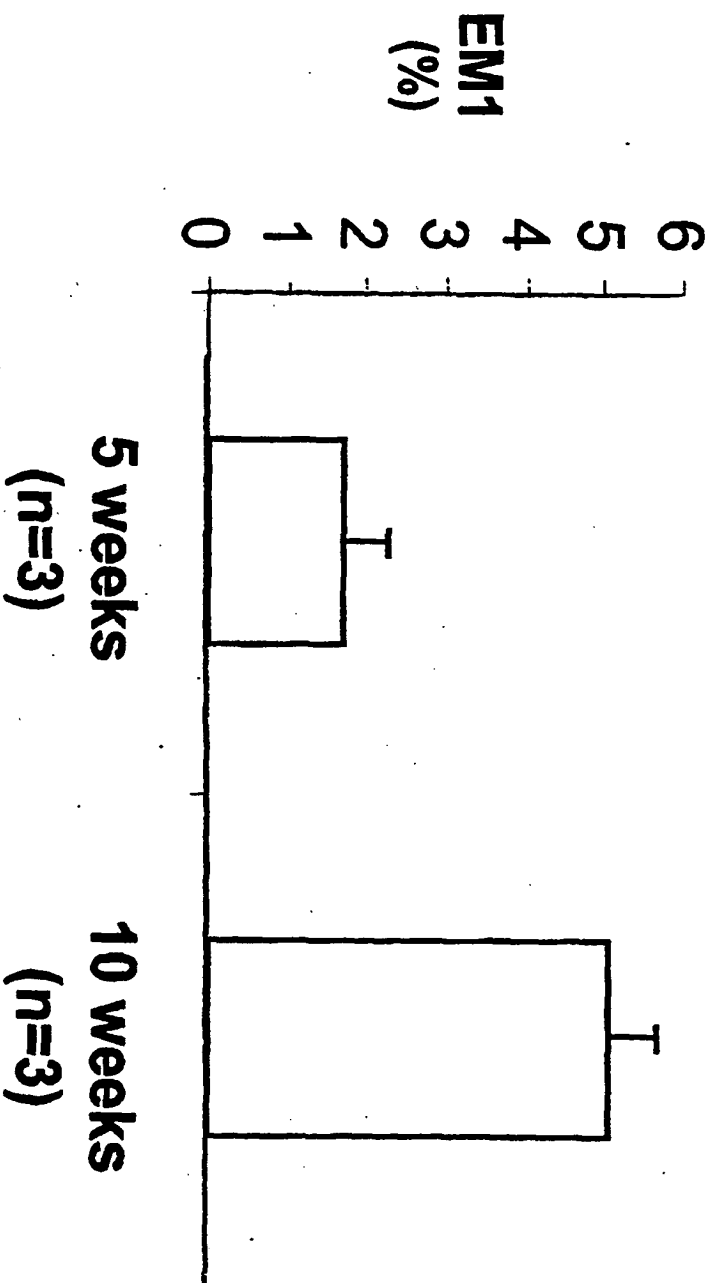


FIGURE 3B

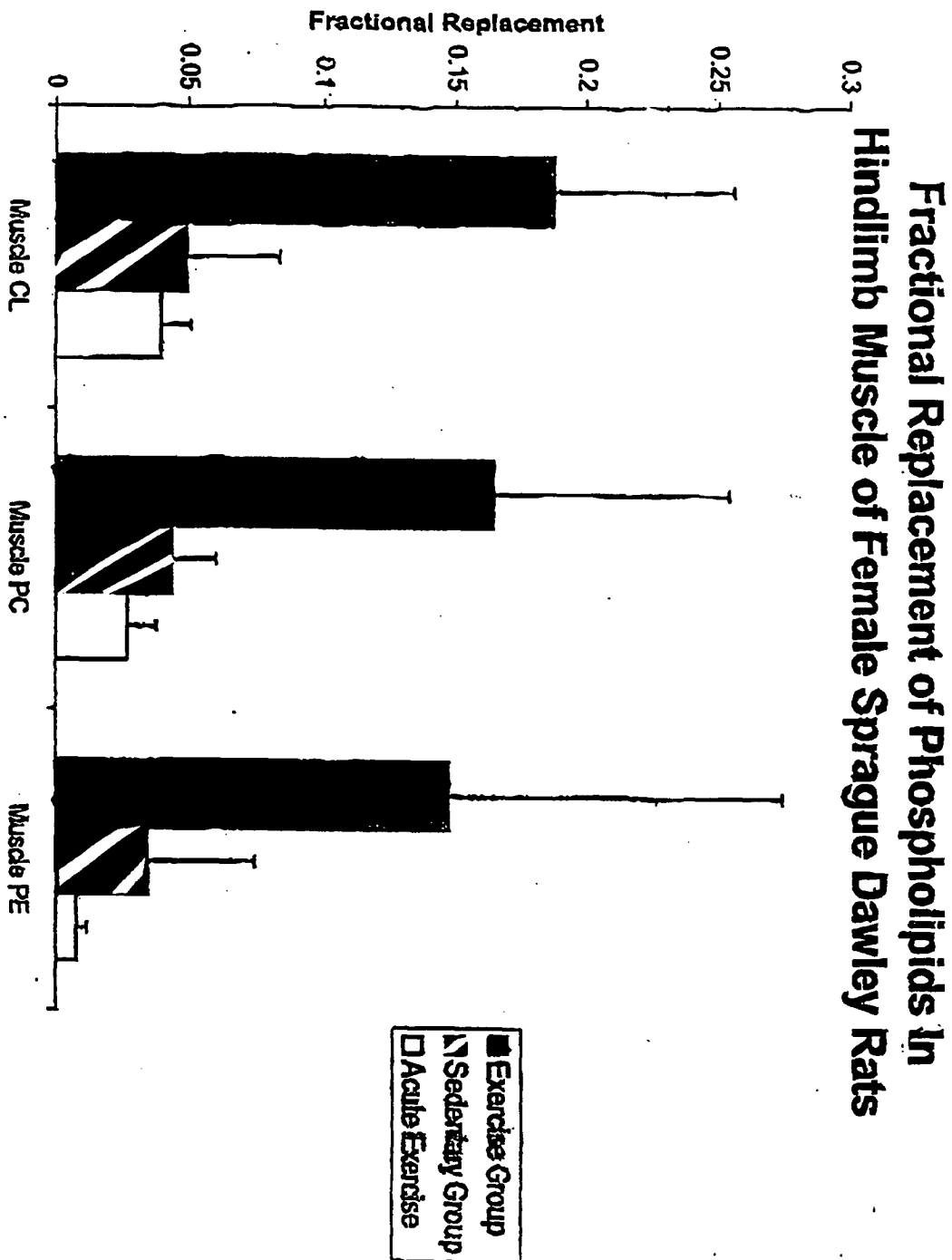


FIGURE 4A

Fractional Replacement of Phospholipids In Heart Muscle of Female Sprague Dawley Rats

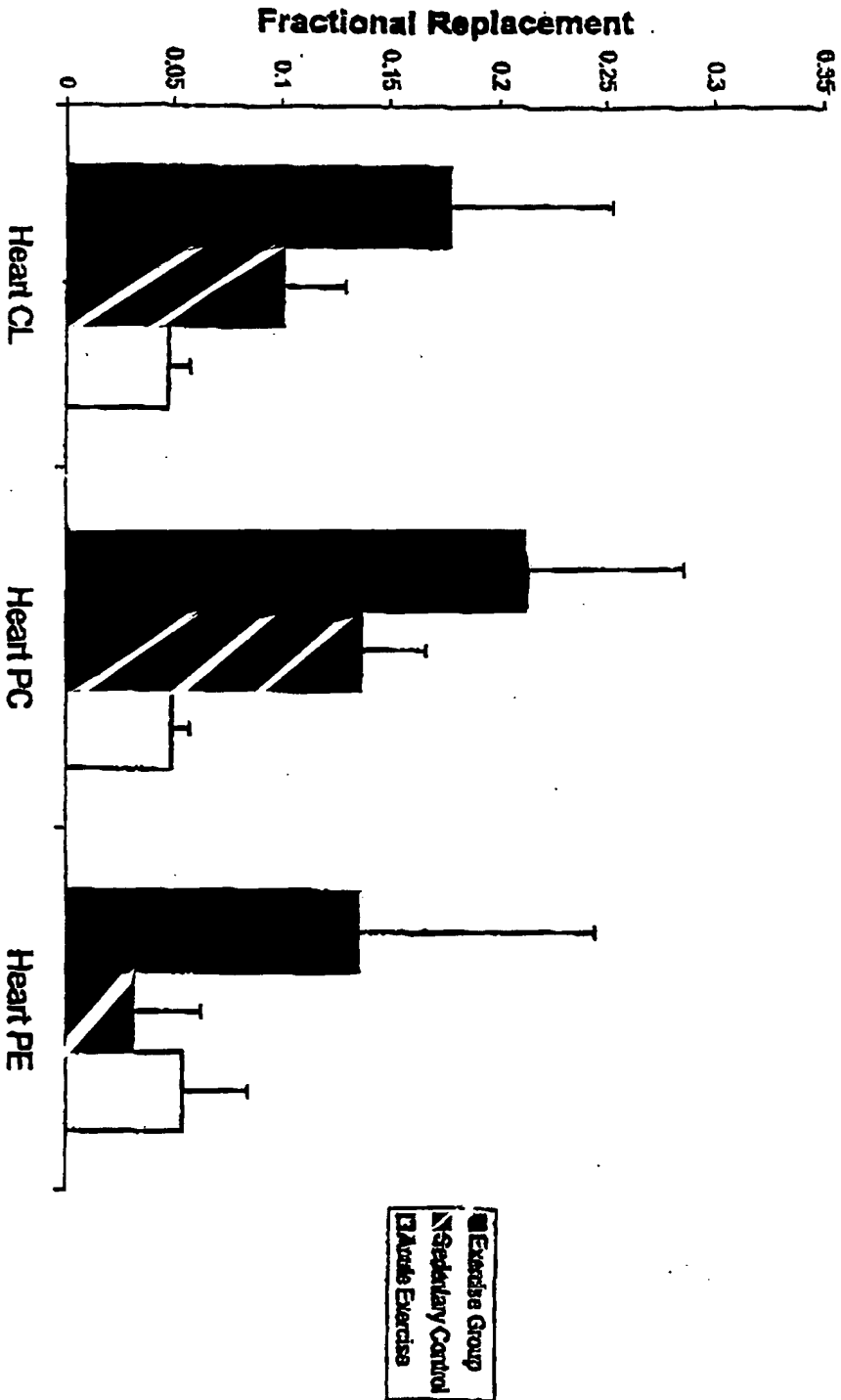


FIGURE 4B

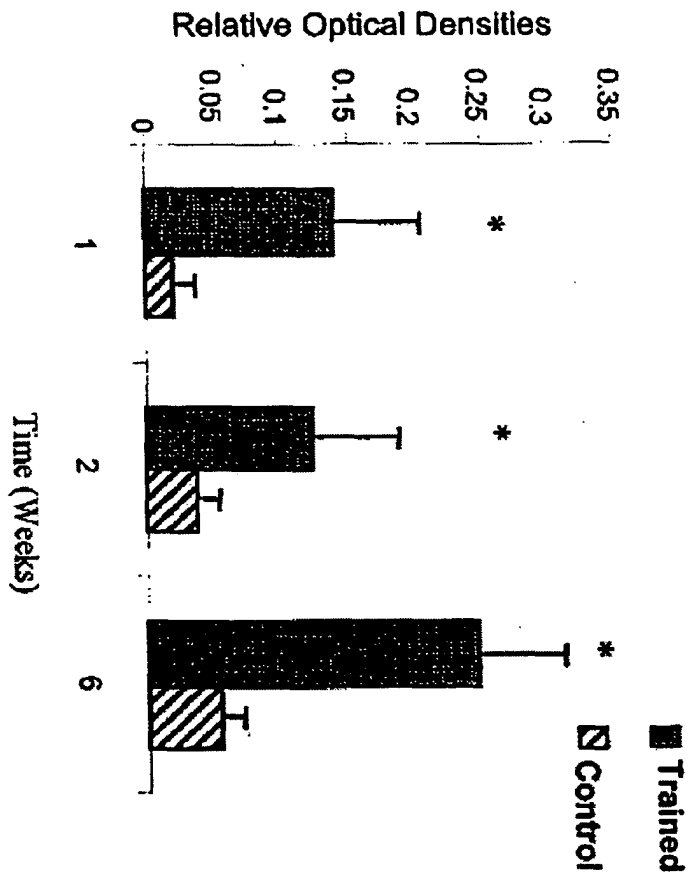


FIGURE 5

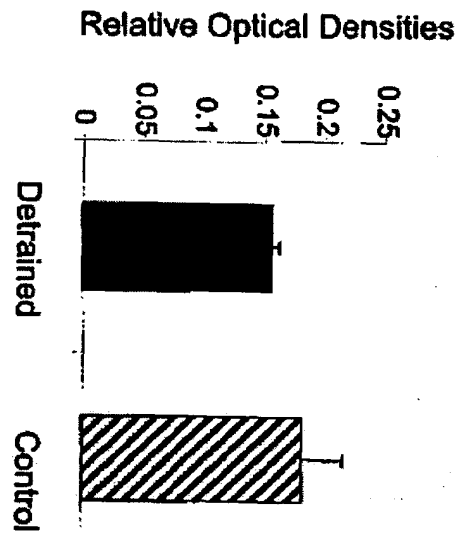


FIGURE 6